INTERNATIONAL SEARCH REPORT

onal Application No PCT/IT 03/00579

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B22D18/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B22D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 225 970 A (COLLINS MOTOR CORP LTD) 20 June 1990 (1990-06-20) page 1, line 14 -page 2, line 23; figures 1,2	1,2
V	page 3, last paragraph -page 5, line 24	
Υ		3,4
X	US 4 733 714 A (SMITH ROBERT A) 29 March 1988 (1988-03-29) column 1, line 35 -column 2, line 30	1,2
Υ	2, The 30	3,4
X	DE 12 68 320 B (KARL SCHMIDT GES MIT BESCHRAEN) 16 May 1968 (1968-05-16) column 3, line 5 -column 4, line 3; figures 1-4	6
Y A		3,4 11,21
	-/	

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X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.	
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed Detect the exhibition of the international filing date but later than the priority date claimed	claim(s) or te of another do cannot be considered to invention cannot be considered to involve an inventive step when the document is taken alone to fanibilition or the of another document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family	
Date of the actual completion of the International search 25 March 2004	Date of mailing of the international search report 21/04/2004	
Name and mailing address of the IOA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mailliard, A	

INTERNATIONAL SEARCH REPORT

Int onal Application No PCT/IT 03/00579

		PC1/11 U3/UU5/9		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
Х	US 3 874 440 A (VOISIN ALBERT S) 1 April 1975 (1975-04-01) column 2, line 60 -column 6, line 26; figures 1-4		6-8	
Α			1,3,4, 21-23	
Α	EP 0 646 429 A (MAZDA MOTOR) 5 April 1995 (1995-04-05) claims 1-17; figures 1-4,9		21-27	
X	US 4 060 122 A (DI ROSA GAETANO) 29 November 1977 (1977-11-29) column 3, line 1 -column 5, line 58;		6,7,11	
Α	figures 1-5 		26,27	

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/IT 03/00579

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
GB 2225970 A	20-06-1990	AU WO	3966389 A 9000101 A1	23-01-1990 11-01-1990
US 4733714 A	29-03-1988	AU CA GB JP JP JP KR MX	591968 B2 6909287 A 1314686 C 2187984 A ,B 1677469 C 3042991 B 62234653 A 9106182 B1 168807 B	21-12-1989 27-08-1987 23-03-1993 23-09-1987 13-07-1992 28-06-1991 14-10-1987 16-08-1991 09-06-1993
DE 1268320 B	16-05-1968	NONE		
US 3874440 A	01-04-1975	FR DE ES FR GB IT JP SU	2210467 A1 2361934 A1 198814 Y 2253590 A2 1434969 A 999951 B 49096924 A 502595 A3	12-07-1974 20-06-1974 16-11-1975 04-07-1975 12-05-1976 10-03-1976 13-09-1974 05-02-1976
EP 0646429 A	05-04-1995	JP DE DE EP ES US	7308750 A 69415117 D1 69415117 T2 0646429 A1 2126029 T3 5611388 A	28-11-1995 21-01-1999 05-08-1999 05-04-1995 16-03-1999 18-03-1997
US 4060122 /	29-11-1977	IT DE FR GB	1070235 B 2704322 A1 2340157 A1 1530773 A	29-03-1985 18-08-1977 02-09-1977 01-11-1978